State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-720-A Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1996 model-year General Motors Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: TGM4.32PGKEK <u>Displacement</u>: 4.3 Liters (262 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation Three Way Catalytic Converter Dual Heated Oxygen Sensors Heated Oxygen Sensors (Two) Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle Weight(lbs.)	<u>Miles</u>	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Carbon <u>Monoxide (20⁰F)</u>
3751-5750	50,000	0.32	4.4	0.7	12.5
	100,000	0.40	5.5	0.97	n/a

The certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle Weight(lbs.)	<u>Miles</u>	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Carbon <u>Monoxide (20⁰F)</u>
3751-5750	50,000	0.18	1.7	0.3	3.6
	100,000	0.23	2.2	0.42	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 30 day of August 1995.

R. B./Summerfield Assistant Division/Chief Modite Source Division

MANUFACTI	URER: GENERAL MOTO	ORS CORPORAT	ION	ENGINE FAMILY:	1GM4.32PG	IKEK
EVAD STD	. SOK 🏕 LISEFUL	I IFE WITH R	/L 🗶	EVAPORATIVE FA	MILY: TGM1	.089AYMEA
-TTP HY	TIFR-0 TIFR-	1 X TLEV _	LEV	ULEV ZEV; E	PA TIER-0_	IIER-1 <u>_X</u>
VEH CLAS	S(ES): PC LDT	 1		MDV2MDV3	3 MDV4_	MDV5
SINGLE	ERT STD FOR MULTI-	CLASS ENGINE	FAMILY:			
FYH CERT	FUEL(S): TNDO	PH2_X	DIESEL: 13	CCR 2282 OR 4	10 CFR 86.11	L3-90 <u> </u>
EXIT OLIVI	OR -94	M85	CNG	LPG OTHER (SF	PECIFY)	
ELIEL TYP	PE(S): DEDICATED_X	FLEX-FUEL	DUAL - F	UEL GASOLII	NE <u>X</u> DIESE	EL M85
1000 111	CNG ING	LPG	 OTHER (SPI	ECIFY)		
HVRDIN.	TYPE A B C_	APU C	YCLE (E.G.	, OTTO, DIESEL, TUI	RBINE): NA	
ENGINE C	CONFIGURATION: V6	DI	SPLACEMENT	: 4.3 LITERS	262 CUBIC	INCHES
ENGINE C	FRONT X MID	REAR	DRIVE	: FWD RWD_X	4WD-FT	_ 4WD-PT <u>X</u>
FYHAIIST	EMISSION CONTROL S	SYSTEM & COMP	ONENTS: L	EGR, TWC, 2HO2S-HO	2S(2), SFI	
RLHP/DPA	A: SECTION 08.13.0				500	
(LOC)) NEW MODEL 6	TRANS TYPE:	EQUIV.	IGN SYSTEM (PCME/PROM)	EGR SYSTEM	CATALYST
ENG C <u>ODE</u>	VEH MODELS (SEE PAGE 1)	M-MAN	WEIGHT	PART NO./CALIB	PART NO.	PART NO.
(NW)			3875	16200785/	17096188.	25152878
1,1A	T10603+E62 T10653+E62	A4	4000	16192372-ENG	17096309	
	T10603+E63			16192379. 16192380.		
	T10803+E63 T10653+E63			16192381-TRANS		
	,2000			16227245PF-OPER		
1B				16227498-ENG		
15				16232915PG-0PER		
1C				16232332-ENG		
				16235505PH-OPER		
2,2A	T10603+E62		4000	16200785/		
L , L , ·	T10603+E63			16192372-ENG 16192379.		
	T10803+E63 T10653+E62		4250	16192380,		
	T10653+E63			162192381-TRANS 16227245PF-OPER		
2B				16227498-ENG 16232915PG-OPER		
2C				16232332-ENG 16235505PH-OPER		
		.	0005	10200000 0. 2		
	ARLINE NAME 10 PICKUP 4WD	<u>CARLINE</u> 55037				
HEV S	ONOMA PICKUP 4WD	80027				

ISSUED: ML-TR009

REVISED: ML-TR028, ML-TR053, ML-TR063

MANUFACT	URER: GENERAL M	OTORS CORPORAT	ION	ENGINE FAMILY:	TGM4.32PG	KEK
TVAP STD	: 50K ₩ USEF	JL LIFE WITH RA	/L_ -	EVAPORATIVE FA	MILY: TGM1	.089AYMEA
EXH STD:	TIER-O TIE	R-1 <u>X</u> TLEV	_ LEV	ULEV ZEV; E	PA TIER-0_	
	S(ES): PC L	 DT1LDT2_3	<u>K</u> MDV1_	MDV2 MDV3	MDV4_	MDV5
	ERT STD FOR MULT					
FYH CERT	FUEL(S) INDO	PH2 X	DIESEL: 13	CCR 2282 OR 4	0 CFR 86.11	3-90
LAII GLIVI	OR -9	4 M85	CNG	LPGOTHER (SF	ECIFY)	
FIIFI TVD	PE(S): DEDICATED	X FLEX-FUEL	DUAL -I	FUEL GASOLIN	IE <u>X</u> DIESE	L M85
TOLL IT	CNG 1	NG IPG	OTHER (SP	ECIFY)		
HABBIU.	TVDF A R	C APU C	YCLE (E.G.	, OTTO, DIESEL, TUP	RBINE): NA	
ENCINE C	CONFIGURATION: V	6 DI	SPLACEMENT	: 4.3 LITERS	262 CUBIC	INCHES
ENGINE C	CDONT V MID	DFAR	DRIVE	: FWD RWD_X_	4WD-FT	_ 4WD-PT <u>X</u>
ENGINE:	CMICCION CONTDO	SVSTEM & COMP	ONFNTS: L	EGR. TWC. 2HO2S-HO2	2S(2), SFI	
			ONLINIO. L			
RLHP/DPA	A: SECTION 08.13	3.02.00				
(LOC)		TRANS TYPE:	EQUIV.	IGN SYSTEM	EGR SYSTEM	CATALYST
ENG CODE	VEH MODELS (SEE PAGE 1)	A-AUTO M-MAN		(PCME/PROM) PART NO./CALIB	PART NO.	PART NO.
(NW)	(SEE FAGE I)				17006100	25152878
3,3Å	T10603+E62 T10653+E62	M5	3875 4000	16200785/ 16192375-ENG	17096188, 17096309	23132070
	T10603+E63		4000	16187774-TRANS		
	T10803+E63			16227245PF-OPER		
3B	T10653+E63			16227502-ENG		
00				16232915PG-OPER		
3C				16232336-ENG		
00				16235505PH-0PER		
Δ ΔΔ	CT10603+E62		4250	16192375-ENG		
7, 111	TT10603+E62		3875	16227245PF-OPER		
	CT10653+E62 T10603+E62		4000			
	T10803+E63		4050			
4B	TT10653+E62		4250	16227502-ENG		
4D				16232915PG-OPER		
40				16232336-ENG		
4C				16235505PH-OPER		
CHEV SI	ARLINE NAME LO PICKUP 4WD	<u>CARLINE</u> 55037				
CHEV SI	NOMA PICKUP 4WD	80027				
TCCHED.	. MI TDAAG	REVISED: M	I-TR028 M	L-TR053. ML-TR063		

17-TGM4.32PGKEK-3.1

MANUFACTURER: GENERAL MOTORS CORPORATION	ENGINE FAMILY: TGM4.32PGKEK
▼VAP STD: 50K★ USEFUL LIFE WITH R/LV	EVAPORATIVE FAMILY: TGM1089AYMEA
EXH STD: TIER-0 TIER-1_X TLEV LEV U	JLEV ZEV; EPA TIER-0 TIER-1 <u>X</u>
VEH CLASS(ES): PC LDT1 LDT2_X MDV1	MDV2 MDV3 MDV4 MDV5
SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY:	
EXH CERT FUEL(S): INDO PH2_X_ DIESEL: 13 C	
	_PG OTHER (SPECIFY)
FUEL TYPE(S): DEDICATED_X FLEX-FUEL DUAL-FU	
	CIFY)
HYBRID: TYPE A B C APU CYCLE (E.G.,	
ENGINE CONFIGURATION: V6 DISPLACEMENT:	
ENGINE: FRONT_X MID_ REAR DRIVE:	
EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: LEG	iR, TWC, 2HU25-HU25(2), 5F1
RLHP/DPA: SECTION 08.13.02.00	
(LOC) TRANS TYPE: EQUIV.	IGN SYSTEM EGR (PCMF/PROM) SYSTEM CATALYST
ENG VEH MODELS A-AUTO TEST CODE (SEE PAGE 1) M-MAN WEIGHT	(PCME/PROM) SYSTEM CATALYST PART NO./CALIB PART NO. PART NO.
(NW)	16200785/ 17096188, 25152880
5A, T10506+F46 A4 4500 √,6A HT10506+F46	16187793-ENG 17096309
	16187889, 16187890,
	16215601-TRANS
	16227245PF-OPER
5B,6B	16227487-ENG 16232915PG-OPER
5C,6C	16232320-ENG 16235505PH-OPER
	TOZGOGOTTI OF EN
CARLITHE MANE CARLITHE CORE	
<u>CARLINE NAME</u> <u>CARLINE CODE</u> CHEV BLAZER AWD 55072	
GMC JIMMY AWD 80062	
OLDSMOBILE BRAVADA AWD 92520	

ISSUED: ML-TR009 REVISED: ML-TR028, ML-TR053, ML-TR063

	EVAP STD:	50K WUSEFU TIER-O TIEN (ES): PC LI RT STD FOR MULT FUEL(S): INDO_	JL LIFE WITH R R-1_X TLEV DT1 LDT2_ I-CLASS ENGINE PH2_X	/L _ LEV X_ MDV1_ FAMILY: DIESEL: 13	ENGINE FAMILY EVAPORATIVE F ULEV ZEV; MDV2 MDV CCR 2282 OR LPG OTHER (S	AMILY: TGM1 EPA TIER-0 /3 MDV4_ 40 CFR 86.11	.089AYMEA TIER-1 <u>X</u> MDV5 .3-90		
	FUEL TYPE(S): DEDICATED X FLEX-FUEL DUAL-FUEL GASOLINE X DIESEL M85								
		CNG L	NGLPG	OTHER (SP	ECIFY)				
	HYBRID:	TYPE A B	C APU C	YCLE (E.G.	, OTTO, DIESEL, TU	JRBINE): NA			
		NFIGURATION: V			: 4.3 LITERS				
	ENGINE: 1	FRONT_X_ MID_	REAR	DRIVE	: FWD RWD_X	4WU-FI	_ 4WU-P1_A_		
	EXHAUST E	MISSION CONTROL	SYSTEM & COMP	ONENIS: L	EGR, TWC, 2HO2S-HO	J23(2), 3F1			
	RLHP/DPA:	SECTION 08.13	.02.00						
	CODE	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	TEST	IGN SYSTEM (PCME/PROM) PART NO./CALIB	SYSTEM	CATALYST PART NO.		
		T10516 T10506	А4	4250	16200785/ 16187793-ENG 16187889, 16187890, 16215601-TRANS 162267245PF-OPE	17096309	25152879. 25152880		
	5B,6B				16227487-ENG 16232915PG-OPER				
	5C,6C				16232320-ENG 16234404PH-OPER				
	7,7A. 8,8A	T10603+E62 T10603+E63		4000	16187797-ENG 16227245PF-OPER		25152878		
		T10803+E63 T10653+E62		4250					
	7B.8B	T10653+E63			16227493-ENG 16232915PG-OPER				
	7C.8C				16232327-ENG 16235505PH-OPER	ł			
	CHEV BLAZ GMC JIMMY CHEV S10		<u>CARLINE</u> 55070 80060 55037 80027						
•	ISSUED:	ML-TR009	REVISED: M	L-TR028, M	L-TR053, ML-TR063				

MANUFACTU	RER: GENERAL N	NOTORS CORPORATI	ON	ENGINE FAMILY:	TGM4.32PG	KEK
FVAP STD.	50K 💝 USEF	FUL LIFE WITH R/	L. V	EVAPORATIVE FA	MILY: TGM1	089AYMEA
AH SID.	TIFR-0 TIF	FR-1 X TLEV	LEV	ULEV; E	PA TIER-0_	TIER-1 <u>_X</u>
VEH CLACE	(FS) DC	nti inta	 MDV1	MDV2 MDV3	8 MDV4_	MDV5
CINCLE CE	TOT STO EOD MIN	TI-CLASS ENGINE	FAMILY:			
SINGLE CE	KI SID FOR MOD	רבהשט באמדאר א פונס Y פונס	TESEL 13	CCR 2282 OR 2	0 CFR 86.11	3-90
EXH CERT		FIIZ L	CNC	LPGOTHER (SF	PECIFY)	
	UK -:	94 M85	CNO	THE GASOLTM	JE X DIESE	I M85
FUEL TYPE	(S): DEDICATE	DX FLEX-FUEL	DUAL-F	TUEL GASOLIN	ic <u>x</u> bicoc	·
	CNG	LNG LPG	UTHER (SPE	CIFY)	DDINE). NA	
			YCLE (E.G.,	OTTO, DIESEL, TUR	מסבואב). ואר מבט רנוסור 1	NCHES
ENGINE CO	ONFIGURATION:	V6 DIS	SPLACEMENT:	4.3 LITERS	202 CUBIC 1	ALID DT
ENGINE:	FRONT X MID	REAR	DRIVE	FWDRWD_X	4WD-F1	_ 4₩0-F1
EXHAUST E	EMISSION CONTRO	L SYSTEM & COMP	ONENTS: L	EGR, TWC, 2HO2S-HO	2S(2), SFI	
RLHP/DPA:	: SECTION 08.1	3.02.00				
(LOC)		TRANS TYPE:	EQUIV.	IGN SYSTEM	EGR	CATALVET
ENG	VEH MODELS	A-AUTO	TEST	(PCME/PROM) PART NO./CALIB	SYSTEM PA <u>RT NO.</u>	CATALYST PART NO.
CODE (NW)	(SEE PAGE 1)	<u> </u>	WEIGHT		-	
7.7A.	S10516	A4	4000	16200785/	17096188. 17096309	25152879. 25152880
8,8A	S10506			16187797-ENG 16187889,	17090309	23132000
				16187890,		
				16215601-TRANS 16227245PF-OPER		
7B,8B				16227493-ENG 16232915PG-OPER		
				102529151 d OI ER		
7C,8C				16232327-ENG		
				16235505PH-0PER		
9.9A.	S10516	M5	4000	16187797-ENG		25152879
10.10A				16227245PF-OPER		
9B,10B				16227490-ENG		
50,105				16232915PG-OPER		
9C.10C				16232324-ENG		
30,100				16235505PH-OPER		
CAE	RLINE NAME	CARLINE	CODE			
	AZER 2WD	55090				
GMC JIMM	MY 3WD	80076				
ISSUED:	ML-TR009	REVISED: M	L-TR028, M	L-TG117, ML-TR053,	ML-TR063	

17-TGM4.32PGKEK-6.1

'ANUFACTI	JRER: GENERAL M	OTORS CORPORATI	[ON _	ENGINE FAMILY		
EVAP STD	: 50K <u></u> USEF	UL LIFE WITH RA	/L <u>V</u>	EVAPORATIVE F	AMILY: TGM1	.089AYMEA
EXH STD:	TIER-O TIE	R-1 <u>X</u> TLEV	LEV	ULEV;	EPA TIER-0_	TIER-1 <u>X</u>
VEH CLASS	S(ES): PC L	DT1LDT2_)	MDV1_	MDV2 MDV	'3 MDV4_	MDV5
SINGLE C	ERT STD FOR MULT	I-CLASS ENGINE	FAMILY:			
EXH CERT	FUEL(S): INDO_	PH2 <u>_X</u> [DIESEL: 13	CCR 2282 OR	40 CFR 86.11	.3-90
	OR -9	94 M85	CNG	LPG OTHER (S	SPECIFY)	
FUEL TYP	E(S): DEDICATED	<u>X</u> FLEX-FUEL	DUAL-	FUEL GASOLI	NE <u>X</u> DIESE	L M85
	CNGL	NG LPG	OTHER (SP	ECIFY)		
				, OTTO, DIESEL, TU		
ENGINE C	ONFIGURATION: \	/6 DI:	SPLACEMENT	: 4.3 LITERS	262 CUBIC	
ENGINE:	FRONT_X MID_	REAR	DRIVE	: FWD RWD_X	_ 4WD-FT	_ 4WD-PT <u>X</u>
EXHAUST	EMISSION CONTROL	SYSTEM & COMP	ONENTS: L	EGR, TWC, 2HO2S-HO)2S(2), SFI	
RLHP/DPA	: SECTION 08.10	3.02.00				
(LOC)		TRANS TYPE:	EQUIV.	IGN SYSTEM	EGR SYSTEM	CATALYST
ENG CODE	VEH MODELS (SEE PAGE 1)	A-AUTO M- <u>MAN</u>	WEIGHT	(PCME/PROM) PART_NO./CALIB	PART NO.	PART NO.
(NW)			4000	16200785/	17096188.	25152878
9A, 10,10A	T10603+E62 T10603+E63	M5	4000	16187795-ENG	17096309	201000,0
10,107	T10803+E63		4250	16187774. 16215601-TRANS		
	T10653+E62 T10653+E63		4250	16227245PF-OPER		05450070
	T10516					25152879
9B.10B				16227490-ENG		
,,,,,,				16232915PG-OPER		
9C.10C				16232324-ENG		
				16235505PH-OPER		
CV 1	RLINE NAME	CARLINE (CODE			
CHEV S10) PICKUP 4WD	55037	WAF			
	OMA PICKUP 4WD AZER 4WD	88027 55070				
GMC JIM		80060				

ISSUED: ML-TR009 REVISED: ML-TR028, ML-TR053, ML-TR063